

(2 of 2)

PTO/SB/03A (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 7

Complete if Known

Application Number	09/734,953
Filing Date	December 11, 2000
First Named Inventor	Bruce M. Schena
Art Unit	2672
Examiner Name	Jeffery A. Brier
Attorney Docket Number	IMMR036/01US

U.S. PATENT DOCUMENTS

Examiner	Cite No.	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,799,108	08/1998	Salcudean et al.	
		5,823,842	04/1997	Katz et al.	
		5,891,924	09/1997	Hilton	
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Jeffery A. Brier

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Sheet **2** of **7****Complete if Known**

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		5,280,823	07/1993	Guthrie et al.	
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		4,888,877	12/1989	Enderle et al.	
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		3,944,798	03/1976	Eaton	
		3,890,938	06/1975	Fister et al.	

Examiner Signature	<i>Jeffery A. Brier</i>	Date Considered	3/21/06
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First Named Inventor	Bruce M. Schena
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Examiner Name	Jeffery A. Brier
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
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		WIPO	WO/95/02733		01/1995		
		WIPO	WO/95/20787		08/1995		
		WIPO	WO/95/32459		11/1995		
		WIPO	WO/95/16397		05/1996		
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		WIPO	WO/97/12357		04/1997		
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		UK	2254911		10/1992		
		WIPO	WO/95/02801		01/1995		
		WIPO	WO/96/22591		07/1996		

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Signature*Jeffery A. Brier*Date
Considered*3/21/06*

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Substitute for form 1449A/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/734,953
		Filing Date	December 11, 2000
		First Named Inventor	Bruce M. Schena
		Art Unit	2672
		Examiner Name	Jeffery A. Brier
		Attorney Docket Number	IMMR036/01US
Sheet	5	of	7

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
JB		WINEY III, "Computer Simulated Visual and Tactile Feedback as an Aid to Manipulator and Vehicle control", Massachusetts Institute of Technology, 1981.	
JB		TAN, HONG Z., "Human Factors for the Design of Force-Reflecting Haptic Interfaces", Tan, Srinivasan, Eberman, & Cheng, ASME WAM '94.	
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Examiner Signature	Jeffery A. Brier	Date Considered	3/21/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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JB		"High Performance Model of the Immersion Probe," Immersion Probe-MD.TM., Immersion Human Interface Corporation.

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Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6,422,841	7/23/2002	Thomer et al.	
		6,160,489	12/12/2000	Perry et al.	
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		5,575,761	11/19/1996	Hallanpour	
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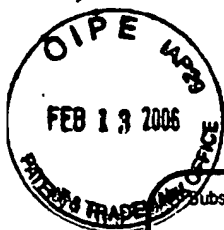
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STATEMENT BY APPLICANT**

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Sheet 2 of 3

Complete If Known

Application Number	09/734,953
Filing Date	December 11, 2000
First Named Inventor	Bruce M. Schena
Art Unit	2672
Examiner Name	Jeffery A. Brier
Attorney Docket Number	IMMR036/01US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
JB		PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," <i>Master of Science Thesis</i> , MIT, Aug. 1990, archived Nov. 8, 1990.
JB		CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," <i>Bachelor of Science Thesis</i> , MIT, May 1983, archived June 23, 1983.
JB		WIKER, "Teletouch Display Development: Phase 1 Report," <i>Technical Report 1230</i> , Naval Ocean Systems Center, San Diego, July 1988.
JB		BLISS, "Optical-to-Tactile Image Conversion for the Blind," <i>IEEE Transactions on Man-Machine Systems</i> , Vol. MMS-11, No. 1, March 1970.
JB		JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," <i>Armstrong Aerospace Medical Research Laboratory</i> , AAMRL-TR-90-039, August, 1990.
JB		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," <i>PRESENCE</i> , 4(4):387-402, Harvard Univ., 1995.
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JB		"Cyberman Technical Specification," <i>Logitech Cyberman SWIFT Supplement to Logitech Mouse Technical Reference and Programming Guide</i> , 4/5/1994.
JB		OUIYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," <i>Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95</i> , Seoul, Korea, 21-24 August 1995.
JB		KACZMAREK et al., "Tactile Displays," <i>Virtual Environment Technologies</i> , Chap. 9, pp. 349-414.
JB		LAKE, "Cyberman from Logitech," at http://www.ibiblio.org/GameBytes/issue21/greviews/cyberman.html , 1994.
JB		YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," <i>Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems</i> , Raleigh, NC, July 7-10, 1992.

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Signature

Jeffery A. Brier

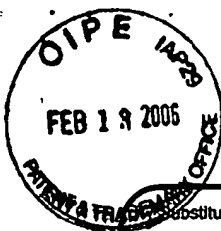
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Sheet **3** of **3**

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Attorney Docket Number	IMMR036/01US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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JB		NOLL, "Man-Machine Tactile," <i>SID Journal</i> , July/August 1972 Issue.
JB		ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks," <i>Ph.D. Dissertation</i> , Stanford University, June 1994.

Examiner Signature	<i>Jeffery A. Brier</i>	Date Considered	3/21/06
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